

	CWDM4	4WDM-10	4WDM-20	4WDM-40	LR4	LR4	LR4	eLR4	ER4 Lite	ER4	ZR4
Part Number	EOLQ-161HG-02-1	EOLQ-161HG-10-1	EOLQ-161HG-20-1	EOLQ-161HG-40-1	EOLQ-161HG-10-L	EOLQ-161HG-10-LB	EOLQ-161HG-10-LA2	EOLQ-161HG-20-LA2	EOLQ-161HG-40-LA	EOLQ-161HG-40-LC	EOLQ-161HG-80-L7
Latch color	Green	Purple	Brown	Tangerine	Blue	Blue	Blue	Blue	Tangerine	Red	White
Laser Type	DML	DML	DML	DML	DML	DML	EML	EML	EML	EML	EML
Distance	2km	10km	20km	40km	10km	10km	10km	10km	30km/40km	40km	80km
Wavelength	CWDM	CWDM	LANWDM	LANWDM	LANWDM	LANWDM	LANWDM	LANWDM	LANWDM	LANWDM	LANWDM
100G Ethernet without FEC					✓	✓	✓	✓		✓	✓
100G Ethernet with FEC	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
100G OTU4 (with FEC by default)						✓	✓	✓	✓		

Specification 100GE without FEC

Unit					BER < 1e-12		BER < 1e-12		BER < 1e-12		BER < 1e-12		BER < 1e-12 (30km)		BER < 1e-12	
					min	max	min	max	min	max	min	max	min	max	min	max
Signalling rate	Gbps				25.78125		25.78125		25.78125		25.78125		25.78125		25.78125	
P _{out} total	dBm					10.5		10.5		10.5		10.5		12.5		8.9
P _{out} each lane	dBm				-4.3	4.5	-4.3	4.5	-4.3	4.5	-2.5	4.5	-2.5	6.5	-2.9	2.9
OMA each lane	dBm				-1.3	4.5	-1.3	4.5	-1.3	4.5	-1.3	4.5	0.5	6.5	0.1	4.5
OMA - TDP	dBm				-2.3		-2.3		-2.3							
Extinction ratio	dB				4		4		4		4				8	
Transmitter & dispersion penalty (TDP)	dB					2.2		2.2		2.2			-2.5	-3.5		
Damage threshold	dBm				5.5		4.5		5.5		5.5		-70.5	-3.5		5.5
P _{in} each lane (Average)	dBm				-10.6	4.5	-10.6	4.5	-10.6	4.5	-14.5	4.5			-20.9	4.5
P _{in} each lane (OMA)	dBm					4.5		4.5		4.5						
R _s Sens each lane (OMA)	dBm					-8.6		-8.6		-8.6		-12.5		-14.8		-21.4
Stressed Rx Sens each lane (OMA)	dBm					-6.8		-6.8		-6.8		-10		-13		-17.9

Specification 100GE with FEC

		Pre-FEC BER < 5e-5		Pre-FEC BER < 5e-5		Pre-FEC BER < 5e-5		Pre-FEC BER < 5e-5		Pre-FEC BER < 5e-5		Pre-FEC BER < 5e-5	
		min	max	min	max	min	max	min	max	min	max	min	max
Signalling rate	Gbps	25.78125		25.78125		25.78125		25.78125		25.78125		25.78125	
P _{out} total	dBm		8.5		8.5		10.5		12.5		12.5		13
P _{out} each lane	dBm	-6.5	2.5	-6.5	2.5	-4.3	4.5	-2.5	6.5	-2.5	6.5	3	7
OMA each lane	dBm	-4	2.5	-4	2.5	-1.3	4.5	0.5	6.5	0.5	6.5	3.7	7.8
OMA - TDP	dBm	-5		-5		-2.3		-0.5					
Extinction ratio	dB	3.5		3.5		4		4.5		4.5		6	8
Transmitter & dispersion penalty (TDP)	dB		3		3		2.8		3		3		1
Damage threshold	dBm	3.5		3.5		5.5		-2.5		-2.5		5.5	
P _{in} each lane (Average)	dBm	-11.5	2.5	-13	2.5	-14.5	4.5	-20.5	-3.5	-20.5	-3.5	-31	4.5
P _{in} each lane (OMA)	dBm		2.5		2.5		4.5		-3.5				
Rx Sens each lane (OMA)	dBm		-10		-11.5		-12.5		-18.5		-18.5		-29
Stressed R _s Sens each lane (OMA)	dBm		-7.3		-8.6		-10		-16		-16		-25.1

Specification OTU4

		Pre-FEC BER < 1e-6		Pre-FEC BER < 1e-6		Pre-FEC BER < 1e-6		Pre-FEC BER < 1e-6		BER < 1e-12	
		min	max	min	max	min	max	min	max	min	max
Signalling rate	Gbps	27.95		27.95		27.95		27.95		27.95	
P _{out} total	dBm		10		8.9		10.5		11.1		8.9
P _{out} each lane	dBm	-0.6	4	-2.5	2.9	-2.5	4.5	0.6	5.1	-2.7	2.9
Extinction ratio	dB	4	6.5	7		7		7		8	
Transmitter & dispersion penalty (TDP)	dB								1.5		
Damage threshold	dBm										5.5
P _{in} each lane (Average)	dBm		-8.4		-8.8		-14.5		-17.4		-4.9
Optical Path Penalty	dBm		1.5		1.5		1.5		1		
Equivalent Receiver Sensitivity	dBm		-11.6		-10.3		-10.3		-18.9		-23.2